

## CPC

## COOPERATIVE PATENT CLASSIFICATION

## B60J

**WINDOWS, WINDSCREENS, NON-FIXED ROOFS, DOORS, OR SIMILAR DEVICES FOR VEHICLES; REMOVABLE EXTERNAL PROTECTIVE COVERINGS SPECIALLY ADAPTED FOR VEHICLES**  
(fastening, suspending, closing, or opening of such devices E05)

**NOTE**

[C2010.04]

Windows, windscreens, non-fixed roofs, doors, or similar devices which are of general applicability, irrespective of whether described or claimed only for vehicles, are also classified in subclass E06B.

Attention is drawn to the Note following the title of class B60.

## B60J 1/00

**Windows; Windscreens; Accessories therefor** ([B60J 10/00](#) takes precedence; air curtains instead of windows [B60J 9/04](#); { sealing strips for windshields [B60J 10/02](#); sealing sash guides for sliding window panes [B60J 10/04](#); glass partitions inside vehicles to protect occupants against personal attack [B60R 21/12](#)})

## B60J 1/001

- . {Double glazing for vehicles}

## B60J 1/002

- . {with means for clear vision, e.g. anti-frost or defog panes, rain shields (**window heating in [H05B 3/84](#), [H05B 3/86](#)**)}

## B60J 1/003

- . {Rear seat windscreens}

## B60J 1/004

- . {Mounting of windows}

## B60J 1/005

- .. {using positioning means during mounting}

## B60J 1/006

- .. { characterised by fixation means such as clips, adhesive, etc. (**incorporated in seal [B60J 10/02](#)**)}

## B60J 1/007

- .. { received in frames to be attached to vehicle}

## B60J 1/008

- . {of special shape, e.g. beveled edges, holes for attachment, bent windows, peculiar curvatures such as when being integrally formed with roof, door, etc.}

## B60J 1/02

- . arranged at the vehicle front {e.g. structure of the glazing, mounting of the glazing (**on windscreen mounted antenna wire [H01Q 1/1271](#)**)}

## B60J 1/025

- .. {Temporary windscreens}

## B60J 1/04

- .. adjustable

## B60J 1/06

- ... comprising more than one pane

## B60J 1/08

- . arranged at vehicle sides

## B60J 1/085

- .. {removably mounted}

## B60J 1/10

- .. fixedly mounted {([B60J 1/085](#) takes precedence)}

- B60J 1/12 .. adjustable
- B60J 1/14 ... with pivotal or rotary movement
- B60J 1/16 ... slidable
- B60J 1/17 .... vertically
  
- B60J 1/18 . arranged at the vehicle rear {(optical viewing arrangements integrated in rear windows, e.g. Fresnel lenses [B60R 1/001](#))}
- B60J 1/1807 .. {movable for vehicles with convertible top}
- B60J 1/1815 ... {non-adjustably mounted in and moving with the soft-top cover}
- B60J 1/1823 ... {adjustable relative to hard- or soft-top, e.g. pivotable}
- B60J 1/183 .... {slidable}
- B60J 1/1838 .. {movable for non-convertible vehicles, including vehicles with versatile load area}
- B60J 1/1846 ... {where the window can slide}
- B60J 1/1853 .... {horizontally in direction transverse to vehicle longitudinal axis}
- B60J 1/1861 .... {vertically, e.g. into lower part of rear door before opening rear door}
- B60J 1/1869 .... {to an end position parallel to roof}
- B60J 1/1876 ... {where the window is pivotable relative to a stationary axis}
- B60J 1/1884 .... {about a horizontal axis}
- B60J 1/1892 ... {where the window is translated by a linkage system}
  
- B60J 1/20 . Accessories, e.g. wind deflectors, blinds (antiglare provisions [B60J 3/00](#); wind deflectors associated with roof openings [B60J 7/22](#); removable external protective coverings for windows or windscreens [B60J 11/08](#); {aerodynamical spoiler for vehicles [B62D 35/00](#);} heating arrangements specially adapted for transparent or reflecting areas [H05B 3/84](#))
- B60J 1/2002 .. {Wind deflectors specially adapted for preventing soiling, e.g. for side windows (integral with sealing arrangements [B60J 10/025](#))}
- B60J 1/2005 ... {for windscreens}
- B60J 1/2008 ... {for rear windows}
- B60J 1/2011 .. {Blinds; curtains or screens reducing heat or light intensity (means against intense light blinding the driver or passengers [B60J 3](#))}
- B60J 1/2013 ... {Roller blinds (for roofs [B60J 7/0015](#); for luggage covering [B60R 5/047](#); for openings in buildings [E06B 9/40](#))}
- B60J 1/2016 .... {Control means for actuating the roller blind, e.g. using electronic control}
- B60J 1/2019 .... {powered, e.g. by electric, hydraulic or pneumatic actuators}
- B60J 1/2022 ..... {with screw rods or extensible rods acting on the draw bar for pushing or push-pulling (pivoting arms [B60J 1/2055](#))}
- B60J 1/2025 ..... {with flexible actuating elements connected to the draw bar for pulling only, e.g. cords, wires or cables}
- B60J 1/2027 ..... {with a buckle-proof guided flexible actuating element acting on the draw bar for pushing or push-pulling, e.g. a Bowden cable}
- B60J 1/203 .... {Mechanism for actuation by hand, e.g. cranks or curtain cords}
- B60J 1/2033 .... {characterised by the spring motor}
- B60J 1/2036 .... {characterised by structural elements}
- B60J 1/2038 ..... {Storage boxes}
- B60J 1/2041 ..... {Blind sheets, e.g. shape of sheets, reinforcements in sheets, materials}

		therefor}
B60J 1/2044	.....	{ Draw bars, including elements attached to it, e.g. sliding shoes, gripping elements or pull cords}
B60J 1/2047	.....	{ End position holding means, e.g. suction cups, hooks on a vehicle, indentations on guides}
B60J 1/205	.....	{ Winding tubes, e.g. telescopic tubes or conically shaped tubes}
B60J 1/2052	.....	{ Guides}
B60J 1/2055	.....	{ Pivoting arms}
B60J 1/2058	.....	{ Springs for compensating the number of windings of the blind on the tube in case winding tube and draw bar are driven together}
B60J 1/2061	.....	[N: Tensioning systems for keeping the blind taut when in use, other than spring motors
B60J 1/2063	....	{ Mounting arrangements for roller blind or its storage box, e.g. integration into beltline or window frame}
B60J 1/2066	....	{ Arrangement of blinds in vehicles}
B60J 1/2069	.....	{ of multiple blinds, e.g. more than one blind per window or per actuation system}
B60J 1/2072	.....	{ Blinds with inclined or vertical orientation of the winding axis}
B60J 1/2075	.....	{ specially adapted for fixed windows}
B60J 1/2077	.....	N: for windshields}
B60J 1/208	.....	{ for rear windows}
B60J 1/2083	.....	{ for side windows, e.g. quarter windows}
B60J 1/2086	.....	{ specially adapted for openable windows, e.g. side window}
B60J 1/2088	...	{Lamellar or like blinds}
B60J 1/2091	...	{Foldable sunscreens ( <a href="#">B60J 1/2088</a> takes precedence)}
B60J 1/2094	..	{Protective means for window, e.g. additional panel or foil, against vandalism, dirt, wear, shattered glass, etc.}
B60J 1/2097	..	{ means to prevent rattling of vehicle windows ( <a href="#">anti-rattling means for vehicle doors E05F 7/02</a> )}

**B60J 3/00**

**Antiglare equipment associated with windows or windscreens** (optical viewing arrangements for vehicles [B60R 1/00](#)); **Sun visors for vehicles** (sun visors having appliances for storing or holding personal property [B60R 7/05](#))

B60J 3/002	.	{External sun shield, e.g. awning or visor}
B60J 3/005	..	{for side windows}
B60J 3/007	.	{Sunglare reduction by coatings, interposed foils in laminar windows, or permanent screens ( <a href="#">layered glass products B32B 17</a> ; <a href="#">process of coating windows C03C 17</a> )}
B60J 3/02	.	adjustable in position { <a href="#">B60J 3/002</a> , <a href="#">B60J 3/005</a> take precedence}
B60J 3/0204	..	{Sun visors}
B60J 3/0208	...	{combined with auxiliary visor}
B60J 3/0213	...	{characterised by the mounting means ( <a href="#">B60J 3/0208</a> takes precedence)}
B60J 3/0217	....	{ Brackets for mounting the sun visor support arm to the vehicle}
B60J 3/0221	.....	{ self mounting, i.e. no tools or screws required}

- B60J 3/0226 ..... { comprising a ball joint or at least two axes of rotation}
- B60J 3/023 ..... { Additional support bracket releasably holding the sun visor}
- B60J 3/0234 ..... { Mounted slidably}
- B60J 3/0239 ..... { and pivoting on a support arm (bearing members regulating the rotational friction on the support arm [B60J 3/0265](#))}
- B60J 3/0243 ..... { sliding out from ceiling}
- B60J 3/0247 ..... { using a suction cup}
- B60J 3/0252 ..... { Structure of the support arm}
- B60J 3/0256 ..... { telescopic}
- B60J 3/026 ..... { articulated, e.g. comprising pivot joints or lazy-tong structure}
- B60J 3/0265 ..... { Attachments of sun visors to mounting means including details of sun visor bearing member regulating the rotational friction on the support arm}
- B60J 3/0269 ..... { in middle region of sun visor}
- B60J 3/0273 ..... { on both end regions of sun visor}
- B60J 3/0278 ... {structure of the body ([B60J 3/0208](#), [B60J 3/0213](#) take precedence)}
- B60J 3/0282 ..... {specially adapted for a courtesy mirror}
- B60J 3/0286 .. {Sunglare reduction by temporary translucent screens or foils removably attached to window}
- B60J 3/0291 .. {Preventing dazzlement during driving in the dark}
- B60J 3/0295 ... {due to reflections in side or rear mirror}
  
- B60J 3/04 . adjustable in transparency
  
- B60J 3/06 . using polarising effect
  
- B60J 5/00** **Doors** ([B60J 10/00](#) takes precedence; window aspects [B60J 1/00](#); { side board or tailgate structures for open load compartments [B62D 33/023](#)})
  
- B60J 5/02 . arranged at the vehicle front {(lids or bonnets [B62D 25/10](#))}
  
- B60J 5/04 . arranged at the vehicle sides {(panel mounted arm-rests [B60N 2/466](#); wall liners [B60R 13/02](#); door edge guards [B60R 13/043](#); padded linings associated with the side doors [B60R 21/0428](#))}
- B60J 5/0401 .. { Upper door structure}
- B60J 5/0402 ... { window frame details, including sash guides and glass runs}
- B60J 5/0404 ... { Outside rear view mirror support}
- B60J 5/0405 ... { Inboard or outboard side of window frame formed integrally with the lower door structure}
- B60J 5/0406 ... { window frame formed separately as module}
- B60J 5/0408 ... { fastening window frame or parts of window frame to lower door structure}
- B60J 5/0409 ... { mechanism preventing outward displacement of window frame at high speeds (ventilation valves [B60H](#))}
- B60J 5/0411 .. { Beltline}
- B60J 5/0412 .. { Lower door structure}
- B60J 5/0413 ... { Inner panel, e.g. characterised by carrying components}

B60J 5/0415	...	{ Outer panel}
B60J 5/0416	...	{ Assembly panels to be installed in doors as a module with components, e.g. lock or window lifter, attached thereto}
B60J 5/0418	...	{ Water or sound barrier, e.g. watershields or seals between dry/wet compartment, sound or vibration dampers}
B60J 5/0419	...	{ Windows in lower door structures}
B60J 5/042	..	{ Reinforcement elements}
B60J 5/0422	...	{ Elongated type elements, e.g. beams, cables, belts or wires}
B60J 5/0423	.....	{ characterised by position in the lower door structure}
B60J 5/0425	.....	{ the elements being arranged essentially horizontal in the centre of the lower door structure ( <a href="#">B60J 5/0426</a> to <a href="#">B60J 5/0448</a> take precedence)}
B60J 5/0426	.....	{ the elements being arranged at the beltline}
B60J 5/0427	.....	{ the elements being arranged along the lower edge of door}
B60J 5/0429	.....	{ the elements being arranged diagonally}
B60J 5/043	.....	{ the elements being arranged vertically}
B60J 5/0431	.....	{ the elements being arranged at the hinge area}
B60J 5/0433	.....	{ the elements being arranged at the lock area}
B60J 5/0434	.....	{ the elements being arranged at the handle area}
B60J 5/0436	.....	{ the elements being arranged at the mirror area}
B60J 5/0437	....	{ characterised by the attachment means to the door, e.g. releasable attachment means}
B60J 5/0438	....	{ characterised by the type of elongated elements}
B60J 5/044	.....	{ the elements being flexible, e.g. belts, cables or wires}
B60J 5/0441	.....	{ the elements having a grid-like structure, i.e. interconnected or interwoven elements}
B60J 5/0443	.....	{ Beams}
B60J 5/0444	.....	{ characterised by a special cross section}
B60J 5/0445	.....	{ formed of several elements arranged in series}
B60J 5/0447	.....	{ formed of several elements arranged in parallel}
B60J 5/0448	.....	{ with branched structures}
B60J 5/045	...	{ Panel type elements ( <a href="#">B60J 5/0455</a> takes precedence)}
B60J 5/0451	...	{ Block or short strip-type elements ( <a href="#">beams B60J 5/0443</a> , <a href="#">position thereof B60J 5/0423</a> )}
B60J 5/0452	...	{ including foams or expanded materials}
B60J 5/0454	.....	{ being expanded onto door panel and forming a laminar structure with door panel, e.g. a rib}
B60J 5/0455	...	{ integrated in door structure or other door elements, e.g. beam-like shapes stamped in inner door panel}
B60J 5/0456	...	{ Behaviour during impact}
B60J 5/0458	.....	{ Passive coupling of the reinforcement elements to the door or to the vehicle body}
B60J 5/0459	.....	{ Active coupling of the reinforcement elements to the door or to the vehicle body, e.g. through releasing of pressurized gas}
B60J 5/0461	.....	{ characterised by a pre-defined mode of deformation or displacement in order to absorb impact}

- B60J 5/0462 . . . . { the impact being a frontal impact}
- B60J 5/0463 . . { Conceptual assembling of door, i.e. how door frame parts should be fitted together to form door}
- B60J 5/0465 . . . { using tailored blanks}
- B60J 5/0466 . . . { using cast parts}
- B60J 5/0468 . . { Fixation or mounting means specific for door components (**fasteners in general F16B21**)}
- B60J 5/0469 . . . { for door panels, e.g. hemming (**hemming equipment B21D39**)}
- B60J 5/047 . . { characterised by the opening or closing movement}
- B60J 5/0472 . . . { the door having a hinge axis in horizontal direction transverse to vehicle longitudinal axis}
- B60J 5/0473 . . . { the door having a hinge axis in the direction of the vehicle longitudinal axis}
- B60J 5/0476 . . . { convertible doors, e.g. window frame is stored in lower door structure}
- B60J 5/0477 . . . { with two doors opening in opposite direction}
- B60J 5/0479 . . . . { without B-pillar or releasable B-pillar, i.e. the pillar is moving with door}
- B60J 5/048 . . { characterised by the material}
- B60J 5/0481 . . . { plastic}
- B60J 5/0483 . . . { lightweight metal, e.g. aluminum, magnesium}
- B60J 5/0484 . . . { hybrid, i.e. plastic moulded onto metal parts}
- B60J 5/0486 . . { Special type}
- B60J 5/0487 . . . { simplified doors related to cabins of e.g. golf carts, tractors, jeeps, cranes, forklifts, etc.}
- B60J 5/0488 . . . { rectangular of shape, e.g. as found in old fashioned cars and coaches}
- B60J 5/049 . . . { caravan door}
- B60J 5/0491 . . . { lid, e.g. for luggage compartment accessible at vehicle side (**B60J 5/04M1 takes precedence**)}
- B60J 5/0493 . . { Appurtenances}
- B60J 5/0494 . . . { Rain covers deployed upon opening door}
- B60J 5/0495 . . . { Finger guards (**for doors in general E06B 7/36, with sensors E05F 15/0021**)}
- B60J 5/0497 . . { for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
- B60J 5/0498 . . . { with rigid panels pivoting about a horizontal axis}
- B60J 5/06 . . . slidable; foldable
- B60J 5/062 . . . {for utility vehicles or public transport (**B60J 5/08 takes precedence**)}
- B60J 5/065 . . . . {with non-rigid elements, e.g. side curtains (**B60J 7/062, B60J 7/068 take precedence**)}
- B60J 5/067 . . . . . {vertically movable}
- B60J 5/08 . . . of roller-blind type {made of rigid elements}
- B60J 5/10 . . . arranged at the vehicle rear (**B60J 5/04 takes precedence** { ; bonnets or lids **B62D 25/10**; tail gates for pick-up trucks **B62D 33/0273**; counterbalancing **E05F**; springs, e.g. pneumatic **F16F**)}
- B60J 5/101 . . . { for non-load transporting vehicles, i.e. family cars including vans}
- B60J 5/102 . . . { comprising door or part of door being pivotable downwards about horizontal axis to open position}
- B60J 5/103 . . . . { where lower door part moves independently from other door structures, e.g.

- by being hinged on the vehicle body}
- B60J 5/104 . . . . { where lower door part optionally moves independently, or follows as component the movement of the entire door structure, e.g. by being hinged in a door frame or releasably connected to upper door part}
- B60J 5/105 . . . { comprising door or part of door being pivotable about vertical axis}
- B60J 5/106 . . . { comprising door or part of door being moveable by a linkage system to open/close position}
- B60J 5/107 . . . { constructional details, e.g. about door frame, panels, materials used, reinforcements}
- B60J 5/108 . . { for load transporting vehicles or public transport, e.g. lorries, trucks, buses}
- B60J 5/12 . . . slidable; foldable
- B60J 5/125 . . . {for utility vehicles or public transport ([B60J 5/14](#) takes precedence)}
- B60J 5/14 . . . of roller-blind type {made of rigid elements}

**B60J 7/00** **Non-fixed roofs; Roofs with movable panels** { e.g. rotary sunroofs}([B60J 10/00](#) takes precedence; window aspects [B60J 1/00](#); fixed roofs [B62D 25/06](#); mechanisms for operating wings [E05F 11/00](#), [E05F 15/00](#))

- B60J 7/0007 . { moveable head-liners, screens, curtains or blinds for ceilings}
- B60J 7/0015 . . { roller blind}
- B60J 7/0023 . . { flexible and foldable}
- B60J 7/003 . . { one or more sliding rigid plate or lammellae}
- B60J 7/0038 . . . { stored in stacked fashion}
- B60J 7/0046 . . { side blind between roof and panel in vent mode}
- B60J 7/0053 . { Collapsible lateral roof side beams}
- B60J 7/0061 . . { where the beam moves inwardly during folding of roof, e.g. by swiveling, sliding or translation, to disconnect the beam from windshield header}
- B60J 7/0069 . . { where the beam itself is folded and moves inwardly, e.g. concertina type}
- B60J 7/0076 . { separately collapsible C-pillars, e.g. by folding inwardly or sliding ([B60J 7/126](#) takes precedence)}
- B60J 7/0084 . { Water draining for non-fixed roofs or roof panels (for fixed roofs not integral with roof structure [B60R 13/06](#), for fixed roofs integral with roof structure [B62D 25/07](#))}
- B60J 7/0092 . . { by inflating the roof (inflatable soft tops [B60J 7/1256](#))}
- B60J 7/02 . . of sliding type {e.g. comprising guide shoes}
- B60J 7/022 . . {Sliding roof trays or assemblies}
- B60J 7/024 . . { characterised by the height regulating mechanism of the sliding panel ([B60J 7/043](#) to [B60J 7/053](#) take precedence)}
- B60J 7/026 . . {with rigid non plate-like elements, e.g. for convertible vehicles}
- B60J 7/028 . . . {the sliding movement being combined with a pivoting movement}
- B60J 7/04 . . with rigid plate-like element or elements {e.g. open roofs with harmonica-type folding rigid panels ([B60J 7/061](#) takes precedence)}
- B60J 7/041 . . . { for utility vehicles, e.g. with slidable and foldable rigid panels}
- B60J 7/042 . . . . { with a vertical lifting or folding movement (non-sliding roof panels movable

			for lifting <a href="#">B60J 7/1614</a> )}
<a href="#">B60J 7/043</a>	...	Sunroofs ( <a href="#">B60J 7/047</a> to <a href="#">B60J 7/053</a> take precedence){e.g. sliding above the roof}	
<a href="#">B60J 7/0435</a>	....	{pivoting upwardly to vent mode and moving at the outside of the roof to fully open mode}	
<a href="#">B60J 7/047</a>	...	movable to overlapping or nested relationship {( <a href="#">B60J 7/041</a> takes precedence)}	
<a href="#">B60J 7/05</a>	...	pivoting upwardly to vent mode and moving downward before sliding to fully open mode	
<a href="#">B60J 7/053</a>	...	sliding with final closing motion having vertical component to attain closed and sealed condition {e.g. sliding under the roof}	
<a href="#">B60J 7/057</a>	...	Driving or actuating arrangements ( <a href="#">B60J 7/047</a> to <a href="#">B60J 7/053</a> take precedence){e.g. manually operated levers or knobs}	
<a href="#">B60J 7/0573</a>	....	{power driven arrangements, e.g. electrical}	
<a href="#">B60J 7/0576</a>	.....	{fluid}	
<a href="#">B60J 7/06</a>	..	with non-rigid element or elements	
<a href="#">B60J 7/061</a>	...	{sliding and folding}	
<a href="#">B60J 7/062</a>	....	{for utility vehicles ( <a href="#">B60J 7/065</a> takes precedence)}	
<a href="#">B60J 7/063</a>	....	{for public transport ( <a href="#">B60J 7/066</a> takes precedence)}	
<a href="#">B60J 7/064</a>	....	{using folding arms sliding in longitudinal tracks for supporting the soft roof}	
<a href="#">B60J 7/065</a>	.....	{for utility vehicles}	
<a href="#">B60J 7/066</a>	.....	{for public transport}	
<a href="#">B60J 7/067</a>	...	{sliding and winding up}	
<a href="#">B60J 7/068</a>	....	{for utility vehicles, e.g. of tarpaulin or roller-blind type}	
<a href="#">B60J 7/08</a>	.	of non-sliding type, i.e. movable or removable roofs or panels, e.g. let-down tops or roofs capable of being easily detached or of assuming a collapsed or inoperative position	
<a href="#">B60J 7/085</a>	..	{winding up, e.g. for utility vehicles}	
<a href="#">B60J 7/10</a>	..	readily detachable, e.g. tarpaulins with frames, or fastenings for tarpaulins (covering of loads on vehicles by tarpaulins <a href="#">B60P 7/04</a> )	
<a href="#">B60J 7/102</a>	...	{Readily detachable tarpaulins, e.g. for utility vehicles; Frames therefor}	
<a href="#">B60J 7/104</a>	....	{Fastening means for tarpaulins}	
<a href="#">B60J 7/106</a>	...	{readily detachable hard-tops (storage compartment for collapsible flexible tops <a href="#">B60J 7/20</a> )}	
<a href="#">B60J 7/108</a>	....	{Foldable rear hoods therefor}	
<a href="#">B60J 7/11</a>	...	Removable panels, e.g. sunroofs	
<a href="#">B60J 7/12</a>	..	foldable; Tensioning mechanisms therefor, e.g. struts ( <a href="#">B60J 7/10</a> , <a href="#">B60J 7/20</a> ) take precedence)	
<a href="#">B60J 7/1204</a>	...	{ Control devices, e.g. for compensating tolerances, for defining movement or end position of top, for tensioning the top or for switching to an emergency mode}	
<a href="#">B60J 7/1226</a>	...	{Soft tops for convertible vehicles}	
<a href="#">B60J 7/123</a>	....	{ characterised by means for fastening the soft top cloth to the arches or vehicle body work}	
<a href="#">B60J 7/1234</a>	....	{ characterised by arches, e.g. shape or material}	
<a href="#">B60J 7/1239</a>	.....	{ Front bow}	

B60J 7/1243	.....	{ Intermediate bows}
B60J 7/1247	.....	{ Tensioning bow at rear of soft top}
B60J 7/1252	.....	{ characterised by lateral arches (foldable side roof beams <a href="#">B60J 7/0053</a> ; linkage arms <a href="#">B60J 7/1265</a> )}
B60J 7/1256	.....	{Inflatable soft tops}
B60J 7/126	.....	{for landaulet-type vehicles, i.e. using a collapsible upper structure of the vehicle body}
B60J 7/1265	.....	{ characterised by kinematic movements, e.g. using parallelogram linkages ( <a href="#">B60J 7/126</a> takes precedence)}
B60J 7/1269	.....	{with remote power control}
B60J 7/1273	.....	{using hydraulic means}
B60J 7/1278	.....	{the complete top rotating around a single main axis on the vehicle body ( <a href="#">B60J 7/1282</a> takes precedence)}
B60J 7/1282	.....	{foldable against a main arch before attaining fully open mode}
B60J 7/1286	.....	{including folding of the quarter windows}
B60J 7/1291	...	{Soft tops for closed vehicle bodies}
B60J 7/1295	...	{Temporary soft tops for seats outside passenger compartments, e.g. rumble seats, chauffeur seats}
B60J 7/14	...	with a plurality of { rigid} plate-like elements { or rigid non plate-like elements, e.g. with non-slidable, but pivotable or foldable movement}
B60J 7/141	.....	{ for covering load areas, e.g. for pick-up trucks}
B60J 7/143	.....	{ for covering the passenger compartment}
B60J 7/145	.....	{ at least two elements being folded in clamp-shell fashion}
B60J 7/146	.....	{ all elements being folded in same orientation and stacked fashion}
B60J 7/148	.....	{ at least one element being stored in vertical fashion}
B60J 7/16	..	non-foldable { and rigid, e.g. a one-piece hard-top or a single rigid roof panel}( <a href="#">B60J 7/10</a> takes precedence)
B60J 7/1607	...	{ for covering load areas, e.g. rigid panels for pick-up truck beds}
B60J 7/1614	.....	{ with a vertical lifting movement maintaining the inclination of the roof or panel}
B60J 7/1621	.....	{ hinged on one side}
B60J 7/1628	...	{ for covering the passenger compartment}
B60J 7/1635	.....	{ of non-convertible vehicles}
B60J 7/1642	.....	{ Roof panels, e.g. sunroofs or hatches, movable relative to the main roof structure, e.g. by lifting or pivoting}
B60J 7/165	.....	{ at least a major part of the roof being lifted on all corners}
B60J 7/1657	.....	{ at least a major part of the roof pivoting about a stationary axis}
B60J 7/1664	.....	{ of convertible vehicles (foldable rear hoods for readily detachable hard-tops <a href="#">B60J 7/108</a> )}
B60J 7/1671	.....	{ the roof pivoting about a stationary axis}
B60J 7/1678	.....	{ the axis being horizontal}
B60J 7/1685	.....	{ the axis being vertical}
B60J 7/1692	.....	{ the roof being movable by a linkage system}
B60J 7/185	.	Locking arrangements (locks in general <a href="#">E05B</a> )

- B60J 7/1851 .. { for locking the foldable soft- or hard-top to the windshield header}
- B60J 7/1853 ... { locking mechanism arranged in windshield header}
- B60J 7/1855 .. { for locking or immobilising roof elements when stored}
- B60J 7/1856 .. { for interlocking the roof linkage system when deployed}
- B60J 7/1858 .. { for locking soft tops to a surrounding rigid roof structure, e.g. to a closed vehicle body (B60J12D takes precedence)}
- B60J 7/19 .. for rigid panels {(B60J 7/1851 to B60J 7/1856 take precedence)}
- B60J 7/192 ... { for locking the sunroof panel to the roof}
- B60J 7/194 ... { for locking detachable hard-tops or removable roof panels to the vehicle body}
- B60J 7/196 ... { for locking or interconnecting rigid roof panels to each other}
- B60J 7/198 ... { for locking tonneau covers such as covers for roof storage compartments or for pick-up truck beds}
  
- B60J 7/20 . Vehicle storage compartments for roof parts {or for collapsible flexible tops}
- B60J 7/201 .. { being outside of vehicle, e.g. onto boot lid, or into a storage compartment to be closed by one of the roof panels itself}
- B60J 7/202 .. { being characterised by moveable cover parts for closing the gap between boot lid and rearmost seats}
- B60J 7/203 ... { the cover part comprising cover side flaps}
- B60J 7/205 .. { where the boot lid opens in rearward direction to receive the roof and in forward direction to receive luggage}
- B60J 7/206 .. { being arranged at the vehicle front}
- B60J 7/207 .. { being adjustable in volume, i.e. collapsible in order to increase luggage space in boot when roof is not stored}
- B60J 7/208 .. { with improved trunk access by moving the folded roof package when opening the trunk lid for loading or unloading luggage}
  
- B60J 7/22 . Wind deflectors for open roofs
- B60J 7/223 .. {specially adapted for convertible cars}
- B60J 7/226 .. {immovably attached to vehicle roof section}
  
- B60J 9/00** **Devices not provided for in one of main groups [B60J 1/00](#) to [B60J 7/00](#)([B60J 10/00](#) takes precedence)**
  
- B60J 9/02 . Entrance or exit closures other than windows, doors, or in roofs, e.g. emergency escape closures in vehicle bottom {(Emergency exits for rail vehicles [B61D 19/023](#))}
- B60J 9/04 . Air curtains (in general [F24F](#))
  
- B60J 10/00** **Sealing arrangements** ({sealing arrangements for other vehicle parts [B60R 13/06](#)}; sealings in general [F16J 15/00](#))
  
- B60J 10/0002 . {characterised by the material}
- B60J 10/0005 .. {consisting of a plurality of plastic materials having different physical or chemical properties ([B60J 10/0008](#) takes precedence)}
- B60J 10/0008 .. {provided with a low-friction material on the surface}
- B60J 10/0011 .. {provided with reinforcements or inserts}

- B60J 10/0014 . {characterised by the shape}
- B60J 10/0017 .. {having corner parts or bends}
- B60J 10/002 .. {having variable cross-sections in the longitudinal direction}
- B60J 10/0022 .. {consisting of two or more parts assembled along their longitudinal direction  
([B60J 10/0017](#) takes precedence)}
- B60J 10/0025 ... {Modular sealing arrangements, i.e. arrangements built up from a large number  
of joined modules}
- B60J 10/0028 .... {with joined end members, e.g. abutting ends}
- B60J 10/0031 .. {having tubular parts}
- B60J 10/0034 ... {with vent holes}
- B60J 10/0037 ... {being inflatable or deflatable}
- B60J 10/004 ... { having projections within tubular parts, e.g. ribs}
- B60J 10/0042 ... { having more than one tubular sealing cavity, e.g. separate tubular sealing  
parts or partitioning walls within tubular sealing part}
- B60J 10/0045 .. {having water drainage means}
- B60J 10/0048 .. {characterised by the surface shape}
- B60J 10/0051 ... {provided with decorations}
- B60J 10/0054 .. { having projections, grooves or channels in the longitudinal direction}
- B60J 10/0057 ... { for enclosing or housing cables or other functional devices}
- B60J 10/006 ... { for facilitating pre-defined deformation of sealing parts, e.g. to enhance proper  
folding}
  
- B60J 10/0062 . {characterised by the fastening means ([arrangements of fasteners and clips for inner  
vehicle liners B60R 13/0206](#)); Assembling sealing arrangements with vehicle parts}
- B60J 10/0065 .. {with integral "U"-shaped retainers}
- B60J 10/0068 ... {characterised by the configuration of the retaining lips}
- B60J 10/0071 .. {with adhesives}
- B60J 10/0074 ... {with premoulded adhesive tapes, e.g. double-sided tapes}
- B60J 10/0077 ... {with formless adhesives, e.g. hot melt}
- B60J 10/008 .. {with separately inserted fastening means ([B60J 10/0085](#) takes precedence)}
- B60J 10/0082 ... {comprising beads}
- B60J 10/0085 .. {with magnets}
- B60J 10/0088 .. {Assembling sealing arrangements with vehicle parts}
  
- B60J 10/0091 . {characterised by the way of contact between two or more cooperating sealing  
arrangements}
  
- B60J 10/0094 . { characterised by means for prevention of noise, e.g. window rattling or vibration}
  
- B60J 10/0097 . { characterised by defrosting arrangements, e.g. the heating of sealing}
  
- B60J 10/02 . for windows or windscreens {([B60J 10/0002](#) to [B60J 10/0091](#) take precedence)}
- B60J 10/025 .. {with integral wind deflecting means for preventing soiling}
- B60J 10/04 .. for sliding window panes, e.g. sash guides
- B60J 10/041 ... {for sealing the lower part of the panes provided at the waist of the vehicle door}

- B60J 10/042 . . . { for the window sash, e.g. glass run channels}
- B60J 10/043 . . . . { preventing outward displacement of window at high speed}
- B60J 10/044 . . . . { on corner pieces, e.g. on mirror supports or quarter windows}
- B60J 10/045 . . . . { with arrangements to reduce air resistance due to glazing not being flush with sash guide}
- B60J 10/046 . . . { for sashless windows}
- B60J 10/047 . . . . { preventing outward displacement of window at high speed}
- B60J 10/048 . . . . { the sealing arrangement being between the edges of adjacent glazings}
- B60J 10/049 . . . . . { mounted on the pillar}
- B60J 10/06 . . . for flush-glass windows { i.e. flush with body or window frame ([B60J 10/041](#) takes precedence)}
  
- B60J 10/08 . for doors, {lids or bonnets ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence)}
- B60J 10/081 . . { arranged on body side}
- B60J 10/083 . . . { with additional seals on body side}
- B60J 10/085 . . { arranged on door side}
- B60J 10/086 . . . { with additional seals on door side}
- B60J 10/088 . . . { mounted on, or integral with, the glass-run sealing}
  
- B60J 10/10 . for non-fixed roofs, {e.g. foldable roofs, removable hard-tops and tarpaulins ([B60J 10/0002](#) to [B60J 10/0091](#) take precedence)}
  
- B60J 10/12 . for movable panels in roofs {([B60J 10/0002](#) to [B60J 10/0091](#) take precedence)}
  
- B60J 11/00** **Removable external protective coverings specially adapted for vehicles or part of vehicles, e.g. parking covers** (covering of load on vehicles [B60P 7/00](#); guard strips for body finishing, identifying or decorating [B60R 13/04](#); tents for use as garages [E04H 15/00](#))
  
- B60J 11/02 . Covers wound on rollers
- B60J 11/025 . . { specially adapted for covering vehicle parts, e.g. for doors, windows or windscreens}
  
- B60J 11/04 . for covering at least the roof of the vehicle, e.g. for covering the whole vehicle
  
- B60J 11/06 . for covering only specific parts of the vehicle, e.g. for doors (covers or guards for traction couplings, hitches, draw-gear or towing devices [B60D 1/60](#); guards for wheels, radiators or bumpers [B60R 19/00](#))
  
- B60J 11/08 . . for windows or windscreens (antiglare equipment [B60J 3/00](#))
- B60J 11/10 . . for wheels (hub caps or the like [B60B 7/00](#); external spare wheel stowing, holding or mounting arrangements [B62D 43/02](#))
  
- B60J 2005/00** **Doors** ([B60J 10/00](#) takes precedence; window aspects [B60J 1/00](#); { side board or tailgate structures for open load compartments [B62D 33/023](#)})
  
- B60J 2005/04 . arranged at the vehicle sides {(panel mounted arm-rests [B60N 2/466](#); wall liners

- [B60R 13/02](#); door edge guards [B60R 13/043](#); padded linings associated with the side doors [B60R 21/0428](#)}}
- B60J 2005/047 .. { characterised by the opening or closing movement}
- [B60J 2005/0475](#) ... due to absence of the B-pillar
- B60J 2007/00** **Non-fixed roofs; Roofs with movable panels** { e.g. rotary sunroofs}([B60J 10/00](#) takes precedence; window aspects [B60J 1/00](#); fixed roofs [B62D 25/06](#); mechanisms for operating wings [E05F 11/00](#), [E05F 15/00](#))
- B60J 2007/08 . of non-sliding type, i.e. movable or removable roofs or panels, e.g. let-down tops or roofs capable of being easily detached or of assuming a collapsed or inoperative position
- B60J 2007/12 .. foldable; Tensioning mechanisms therefor, e.g. struts ([B60J 7/10](#), {[B60J 7/20](#)} take precedence)
- B60J 2007/1204 ... { Control devices, e.g. for compensating tolerances, for defining movement or end position of top, for tensioning the top or for switching to an emergency mode}
- [B60J 2007/1208](#) .... Control devices
- [B60J 2007/1213](#) .... Fastening devices
- [B60J 2007/1217](#) .... Pretensioning devices closing the roof aperture when released
- [B60J 2007/1221](#) .... construction details of the arches